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DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL . . .-	This Information has been Authorized for Release to . . .

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UPDATE FOR PLOTTING DOCUMENTATION
February 1979

USER'S MANUAL FOR THE
PLOTTING DISPLAY SYSTEM

Second Edition

January 1978

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REVISED PAGES

Destroy old pages.   Insert new pages.

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4. SELECTING OVERLAYS FOR WORLD AERONAUTICAL CHARTS (WACs)

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PLOTTING DISPLAY SYSTEM
SELECTED SCALE IS 1:1,000,000

ENTER DATA FOR PLOT OVERLAYS: (MAXIMUM RANGE OF 7 DAYS)
    I/S: NN   FROM PASS: PP   DATE: YY/MM/DD   TO PASS: PP DATE: YY/MM/DD
    I/S: NN   FROM PASS: PP   DATE: YY/MM/DD   TO PASS: PP DATE: YY/MM/DD

SELECT DESIRED OPTION(S):
 OPTION 1: [−] LIMIT WAC'S NNNN NNNN NNNN NNNN NNNN
                              NNNN NNNN NNNN NNNN NNNN
        OR [−] ALL WACS IDS COVERED BY SELECTED I/S AND PASS(ES).

 OPTION 2: [−] LIMIT TO AREAS ANNN ANNN ANNN ANNN ANNN ANNN ANNN
         OR [−] ALL IMAGES WITH VALID AREA DESIGNATOR

 OPTION 3: [−] LIMIT TO IMAGE ID: YY/MM/DD AANNNN

CHOOSE OMIT OPTION:
         [−] OMIT IMAGE ANNOTATION

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Figure 3: The display you will use to select overlays for WACs.

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THE DISPLAY FOR SELECTING OVERLAYS FOR WACs

     If you selected the WAC option, the display depicted in Figure 3 will
be displayed on your screen. Via this display you will define the mission
coverage which includes the images you want plotted, or you may identify a
particular image to be plotted, and you will select the chart or charts for
which you want overlays produced.

DEFINING MISSION COVERAGE

     Two lines are provided for entering the data that defines mission
coverage. Mission coverage is defined by the following entries --

                         imaging satellite (IS) number
                         pass number
                         date of pass

If you want images from more than one pass plotted, you may enter a pass
range. The pass numbers and dates must be entered in chronological order;
that is, you will enter the earlier pass and date first, e.g. --

     IS:<u>01</u>   FROM PASS:<u>01</u>   DATE:<u>77/06/27</u>   TO PASS:<u>16</u>   DATE:<u>77/06/30</u>

Use the second line to define an additional pass or pass range for the same
imaging satellite or to define a pass or pass range for the second imaging
satellite.

     The Plotting Display System will plot images from the past seven or
five days of mission coverage depending upon the options you select. If
you elect to use OPTION 2, which limits the images plotted to those with
valid area designators, only mission coverage from the past five days is
available for plotting. (See SELECTING OPTIONS for a more detailed descrip-
tion of OPTION 2.) When using OPTION 2, the dates you enter as pass dates
must not exceed the current date nor be earlier than <u>four</u> days prior to the
current date. When you do <u>not</u> use OPTION 2, the dates you enter as pass
dates must not exceed the current date nor be earlier than <u>six</u> days prior
to the current date.

SELECTING OPTIONS

     There are 4 options on this display. The first is used to indicate
the charts for which you want overlays produced; the second, to limit plot-
ting to images with area designators; and the third option, to identify a

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particular image that you want plotted. If you use the third option, do
not define mission coverage, and do not use OPTION 2. If you want to pro-
duce plot overlays without image annotations, use the omit option.

The following text outlines the available options and the overlays you
will receive through the use of each option. However, by combining various
options, you may request plot overlays only for the charts that most suit
your interests. (See the following section, GUIDELINES FOR REQUESTING PLOT
OVERLAYS FOR WACs.)

OPTION 1: Use this option to indicate the WACs for which you want
overlays produced. You have two choices, and you <u>must</u>
light pen one and only one choice.

Choice 1: "LIMIT WAC'S..." - light pen this choice when you want
overlays produced for specific WACs. You may enter
from 1 to 10 WAC numbers.

Result   : Overlays of plotted images will be produced only for
the WACs you designate. However, if any of these WACs
were not covered, overlays will not be produced for
those WACs.

Choice 2: "ALL WACS..." - light pen this choice when you want
overlays produced for all WACs covered by the mission
coverage you have defined or by the image you have
specified in OPTION 3 (see below).

Result   : If you identified a particular image in OPTION 3, over-
lays will be produced for all WACs covered by this image.
If you have defined mission coverage, overlays will be
produced for all images included in the coverage defined.

OPTION 2: Use this option when you have defined mission coverage
and want to limit the number of images plotted to those
with valid area designators or specific area designators.
This option provides you with 2 choices; both are optional,
but should you decide to use OPTION 2, you may light pen
only one choice.

Choice 1: "LIMIT TO AREAS..." - light pen this choice when you want
to limit plotting to those images with specific area
designators. You may enter from 1 to 7 area designators.

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Result : Only the images included in the mission coverage you have
defined with the area designators you specify may be plot-
ted. If you light penned Choice 2 (ALL WACS) under OPTION
1, overlays will be produced for all WACs covered by the
images with the area designators you indicate via this
option. If you indicated specific WACs via Choice 1
under OPTION 1, overlays will be produced only for those
WACs specified which are covered by images with the area
designators specified. Should any specified WACs not
be covered, overlays will not be produced for those WACs.

Choice 2: "ALL IMAGES WITH VALID AREA DESIGNATOR" - light pen this
choice when you want only images with valid area designators
plotted.

Result : Only the images included in the mission coverage you have
defined with valid area designators may be plotted. If you
light penned Choice 2 (ALL WACS) under OPTION 1, over-
lays will be produced for all WACs covered by all images
with valid area designators. If you indicated specific WACs
via Choice 1 under OPTION 1, overlays will be produced only
for those WACs specified which are covered by images with
valid area designators. Should any of the specified WACs
not be covered, overlays will not be produced for those WACs.

OPTION 3: Use this option when you want one particular image plotted.
When you use OPTION 3, do not define mission coverage, and
do not use OPTION 2. After light penning OPTION 3, enter
the date and image identifier of the image you want plotted.
The date of the image must not exceed the current date nor
be earlier than six days prior to the current date.

Result : The image you identify will be plotted. If you selected
Choice 1 (LIMIT WAC'S...) under OPTION 1, overlays of this
image will be produced for the WACs you have designated.
Should any of the WACs not be covered, overlays will not be
produced for those WACs. If you light penned Choice 2
(ALL WACS) under OPTION 1, overlays will be produced for
all WACs covered by the image you identify via this option.

OMIT
OPTION : Use this option if you wish to produce plot overlays without
image annotations. You may use it with any of the other
three options.

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Result : Plot overlays without image annotations will be produced.
The other data that appears on the overlays will depend upon
the other option(s) that you chose.

GUIDELINES FOR REQUESTING PLOT OVERLAYS FOR WACs

The Plotting Display System requires that you indicate either a spe-
cific image to be plotted via OPTION 3, or a range of images to be plotted
by defining mission coverage. The system also requires that you choose to
have plots of the image or images produced on overlays either for all WACs
or for specified WACs via OPTION 1. Once you have satisfied these two re-
quirements, you need not input any more data to the system. However, you
are provided with other choices which you may use in combination with your
required input to request the plot overlays from the system that best suit
your interests.

Identifying A Single Image To Be Plotted

When you want a single image plotted, use OPTION 3. The following
guidelines suggest the possible combination of options that you may use
with OPTION 3 to limit the plotting of this image to those charts that best
suit your interests.

1. To request plot overlays for specific charts, use Choice 1 (LIMIT
    WACS) under OPTION 1. You may specify by chart number from 1 to
    10 charts. However, if any of the specified charts are not covered
    by the image you have identified, overlays will not be produced
    for those charts. For this reason, it is recommended that you use
    Choice 2 (ALL WACS) under OPTION 1 to ensure that you receive all
    possible plots of the image you have identified via OPTION 3.

2. To request plot overlays for all charts covered by this image,
    light pen Choice 2 (ALL WACS) under OPTION 1.

3. NOTE: You must light pen one choice under OPTION 1.

4. NOTE: When you use OPTION 3, you may _not_ use OPTION 2.

Identifying A Range Of Images To Be Plotted

If you are interested in receiving plot overlays for a range of images,
define the mission coverage which includes the images of interest. The
following guidelines suggest the various combinations of options you may
select to limit the plotting of imagery defines to those charts that
most suit your interests.

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1. To request plot overlays for specific charts, use Choice 1 (LIMIT WACS) under OPTION 1. You may specify by chart number from 1 to 10 charts. The imagery covering the charts you specify will be plotted and overlays produced for those charts. However, should any of the charts you specify not be covered, overlays will not be produced for those charts. Generally, requesting overlays for specific charts will limit the plotting sufficiently so that it will not be necessary to use other options to further limit your plotting requests. However, you may use OPTION 2 to limit the plotting to only those images with specified area designators (Choice 1 - you may specify from 1 to 7 area designators) or to all images with valid area designators that also cover the specified charts (Choice 2).

2. To request plot overlays for all charts covered by the imagery you have defined, light pen Choice 2 (ALL WACS) under OPTION 1. NOTE: The volume of overlays produced may be great, and you might want to consider combining this choice with other options to limit your plotting requests.

3. To request plot overlays of images with specific area designators use Choice 1 (LIMIT TO AREAS...) under OPTION 2. You may specify from 1 to 7 area designators. Generally, this choice is used in combination with Choice 2 (ALL WACS) under OPTION 1 to limit the output to overlays for only those charts covered by images with specified area designators.

4. To request plot overlays of all images with valid area designators, use Choice 2 under OPTION 2. Generally, this choice is used in combination with Choice 2 (ALL WACS) under OPTION 1 to limit the output to overlays for only those charts covered by imagery with valid area designators.

5. NOTE: You must light pen one choice under OPTION 1.

6. NOTE: When you define mission coverage, you may not use OPTION 3.

INSTRUCTIONS

*   DEFINING MISSION COVERAGE - you must define mission coverage if you do not use OPTION 3. Two lines are provided on the display for this purpose. The following entries are required -- imaging satellite number, pass number, and date of pass. If you want to enter a pass range, enter a second pass number and date. On the first line type your entries over the underscored formats, e.g. --

I/S:<u>NN</u>   FROM PASS:<u>PP</u>   DATE:<u>YY/MM/DD</u>   TO PASS:<u>PP</u>   DATE:<u>YY/MM/DD</u>

Use the second line to enter an additional pass or pass range.

* OPTION 1 - you <u>must</u> select one of the two choices under OPTION 1.
If you select the first choice light pen the brackets and type from
one to ten WAC numbers over the underscored formats, e.g. --

OPTION 1: [-] LIMIT WAC'S <u>NNNN</u> ...

If you select the second choice, light pen the brackets where the
following appears on the display --

OR [-] ALL WACS IDS COVERED BY SELECTED I/S AND PASS(ES)

* OPTION 2 - you may light pen one choice under OPTION 2, but neither
is required. If you use this option do <u>not</u> use OPTION 3. To select
the first choice, light pen the brackets and type from one to seven
area designators over the underscored formats, e.g. --

OPTION 2: [-] LIMIT TO AREAS <u>ANNN</u> ...

To select the second choice, light pen the brackets where the
following appears on the display --

OR [-] ALL IMAGES WITH VALID AREA DESIGNATOR

* OPTION 3 - if you elect to use this option, do not define mission
coverage, and do not use OPTION 2. Light pen the brackets and type
the image number and date over the underscored formats where the
following appears on the display --

OPTION 3: [-] LIMIT TO IMAGE ID: <u>YY/MM/DD</u> <u>AANNNN</u>

* OMIT OPTION: - This option may be used with any of the other three
options. Light pen the brackets where the following appears on the
display --

CHOOSE OMIT OPTION:
                    [-] OMIT IMAGE ANNOTATION

* When you have entered all the appropriate data, transmit the dis-
play by pressing the TRANSMIT key.

* If you have entered all data correctly, you will receive a display
containing this message:

ALL SELECTIONS VALID, PLOTTING FUNCTIONS ACTIVATED

7. SELECTING OVERLAYS FOR
    WORLD PLOTTING SERIES CHARTS

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                    PLOTTING DISPLAY SYSTEM
                    SELECTED SCALE IS 1:18,000,000


ENTER DATA FOR PLOT OVERLAYS:  (MAXIMUM RANGE OF 7 DAYS)
     I/S: NN FROM PASS: PP   DATE: YY/MM/DD   TO PASS: PP   DATE: YY/MM/DD
     I/S: NN FROM PASS: PP   DATE: YY/MM/DD   TO PASS: PP   DATE: YY/MM/DD

  WPS CHARTS DESIRED:
        [-] ALL
                                          [-] AFRICA (WPS-4)
        [-] EURASIA (WPS-1)               [-] OCEANIA (WPS-5)
        [-] NORTH AMERICA (WPS-2)         [-] ANTARCTICA (WPS-6)
        [-] SOUTH AMERICA (WPS-3)         [-] ARCTICA (WPS-7)

  CHOOSE OMIT OPTIONS:
        [-] OMIT FRAMES
        [-] OMIT STRIPS

        [-] OMIT IMAGE ANNOTATION
        [-] OMIT GROUND TRACE

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Figure 6: The display you will use to select overlays for World Plotting Series Charts.

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